

Preface	p. ix
Committees	p. xi
General Review of Nuclear Properties	
Fundamental Issues in the Physics of Elementary Matter: Cold Valleys and Fusion of Superheavy Nuclei - Hypernuclei - Antinuclei - Correlations in the Vacuum	p. 3
Nuclear Equation of State	p. 24
Phase Transitions in Strong Interactions	
Hadron Ratios: Chiral Symmetry Restauration vs. Nonequilibrium Quark Dynamics	p. 45
Probing Hadronization with Strangeness	p. 54
A New Dibaryon Candidate ($[\Omega\Omega]_{0+}$)	p. 64
Strangeness Equilibration in Heavy Ion Collisions	p. 71
Pion Enhancement and Chiral Symmetry	p. 81
The Effect of the Effective Nucleon-Nucleon- $[\rho]$ -Meson Coupling Density Dependence on Liquid-Gas Phase Transition in Hot Asymmetric Nuclear Matter	p. 89
Strange Hadronic Matter in the FST Model	p. 98
Energy and Centrality Dependences of Charged Multiplicity Density in Relativistic Nuclear Collisions	p. 106
Bound States of Anti-Nucleons in Finite Nuclei	p. 112
The Possibility of a Nonzero Mean $[\pi]$ -Field and the Selfconsistency of Relativistic Mean Field Theory for Nuclear Matter	p. 118
Meson Effects on the Chiral Symmetry Breaking and Restoration	p. 125
Density Dependence of Some Quark Condensates in Nuclear Matter in an Effective Model of QCD	p. 129
Analysis of Multi-Particle Production by Two-Source Statistical Model	p. 136
Transport Theory Approach to Intermediate and High Energy Heavy Ion Collisions	
The Production of K^+ Mesons in Heavy Ion Reactions	p. 143
Probing Equilibrium in Intermediate Energy Heavy Ion Collisions	p. 152
Universality in Fragment Inclusive Yields from Au + Au Collisions	p. 160
Isospin Effects on Nuclear Collective Flow in Heavy-Ion Collisions at Intermediate Energies	p. 168
AMD Study of Nuclear Clustering	p. 174
Nonlinear Response from Classical Transport Theory and Quantum Field Theory	p. 181
Stochastic One-Body Transport and Coherent Collision Term	p. 187
Large Amplitude Collective Motion in Finite Systems	
Breakdown of Local Equilibrium and the Equation of State in Non-Equilibrium Systems	p. 199
Fluctuation-Dissipation Dynamics in Heavy-Ion Fusion and Synthesis of the Superheavy Elements	p. 209
New Results from Three-Dimensional TDHF	p. 218

The Many Facets of Multinucleon Transfer Processes in Low Energy Heavy-Ion Collisions	p. 227
Nonlinear Dynamics in Metal Clusters	p. 235
Fission Mass Division and Topology of Potential Energy Surface	p. 243
Toward a Dynamics of Evolution of Matter--Past, Present, and Future of the Self-Consistent Collective Coordinate Method	p. 249
Application of Time-Dependent Density-Matrix Theory	p. 258
Damping Phenomena in Nuclear Systems	
Correlation and Fluctuation Measures for Damped Collective Motion	p. 269
Coulomb Excitation of Double Giant Dipole Resonances	p. 277
Phase Transitions Above and Along the Yrast Line in [subscript 154]Dy	p. 285
Study of Various Resonances within the Phonon Damping Model	p. 293
Invariant Manifolds and Collective Motion in Many-Body Systems	p. 301
Order to Chaos Phase Transition and Complexity	
Exceptional Points: Global and Local Aspects	p. 311
Spontaneous Coherence and Non-Equilibrium Correlation Phase Transitions in Microscopic and Mesoscopic Systems	p. 319
Phase Transition from Order to Chaos in Nuclei	p. 327
Correspondence between Propagating Characters of Coherent States and Energy Spectral Statistics in Chaotic Systems	p. 336
The World According to Renyi: Thermodynamics of Fractal Systems	p. 341
Experimental Test of Slow Phase Randomization and Quantum Chaos in Finite Highly Excited Many-Body Systems	p. 349
Bifurcation Structure of Eigenstates and Periodic Trajectories in TDHF Phase Space--Interference Effects in Eigenstates	p. 357
Nuclear Chaotic Behavior in Particle-Rotor Model and Cranking Model	p. 362
The Effects of Quasiparticle upon Spectra Statistics	p. 371
Microscopic Theory of Transport Phenomenon in Finite System	p. 375
Discrete Variation, Euler-Lagrange Cohomology and Symplectic, Multisymplectic Structures	p. 385
Dynamical Fluctuations in Biological Processes with Factorial Moments	p. 396
Monte-Carlo Simulation of Domain-Wall Network in Two-Dimensional Extended Supersymmetric Theory	p. 400
Topics Related to Nuclear Structure	
Microscopic Study of [alpha]-Cluster Condensation in Light 4N Nuclei	p. 407
Neutron Stars, Bubble Nuclei, and Quantum Billiards	p. 415
Symmetry-Unrestricted Gogny-Hartree-Fock-Bogoliubov Calculation for Ground-State Properties of Neutron-Rich Nuclei	p. 418
A New Class of Nuclear Isomeric States: Mixed Symmetry Isomeric States in Nuclei	p. 423
List of Participants	p. 431
Photographs	p. 439
Author Index	p. 443

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.